C4725-1 1/24/98

45th market statistics issue

retail sales
latest import-export data
equipment on farms
shipments

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Implement & Tractor

The business magazine of the farm & industrial equipment industry

November 1982 • Vol. 97 • No. 19

45th ANNUAL STATISTICS ISSUE

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On the cover... This photo of a Versatile 1150 tractor, taken last December as an Arizona sunrise was not far away, suggests the industry's position today: In the darkest moments before a bright dawn, we're already at work preparing for major opportunities. The photo originally appeared in Versatile Corp.'s 1981 annual report.

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What's Ahead...

I&T SINCE 1886

November 1982

RETAIL SALES OF FARM EQUIPMENT IN THE U.S. continued down in September, though not as severely in some product categories as in prior months.

	Unit Retail Sales					
	September			January-September		
	1982	1981	Pct. Change	1982	1981	Pct. Change
Farm Wheel Tractors:						
2-wheel drive						
40-100 hp	3,713	3,530	+ 5.2	31,971	39,230	-18.5
Over 100 hp	2,120	2,993	-29.2	22,351	30,853	-27.6
Total 2-wheel drive	5,833	6,523	-10.6	54,322	70,083	-22.5
4-wheel drive	520	729	-28.7	5,076	7,138	-28.9
Total Tractors	6,353	7,252	-12.4	59,398	77,221	-23.1
Combines (S-P)	1,823	2,774	-34.3	9,212	15,853	-41.9
Balers*	729	1,108	-34.2	7,892	11,950	-34.0
Forage Harvesters**	885	1,267	-30.1	3,717	5,257	-29.3
Mower Conditioners	1,036	1,613	-35.8	12,313	16,277	-24.4

*Bales under 200 lbs. **Shear-bar type

IN CANADA, RETAIL SALES TURNED UP IN SEPTEMBER:

	Unit Retail Sales					
	September			January-September		
	1982	1981	Pct. Change	1982	1981	Pct. Change
Farm Wheel Tractors:						
2-wheel drive						
40-100 hp	951	810	+17.4	6,361	7,978	-20.3
Over 100 hp	693	613	+13.0	4,213	6,146	-31.5
Total 2-wheel drive	1,644	1,423	+15.5	10,574	14,124	-25.1
4-wheel drive	259	290	-10.7	2,221	3,009	-26.2
Total Tractors	1,903	1,713	+11.1	12,795	17,133	-25.3
Mower Conditioners	221	290	-23.8	2,393	3,461	-30.9
Balers: under 200 lbs.	255	343	-25.7	1,899	2,738	-30.6
over 200 lbs.	295	425	-30.6	1,859	2,761	-32.7
Forage Harvesters*	150	150	-----	565	956	-40.9
Combines: Pull-Type	473	398	+18.8	1,203	1,979	-39.2
S-P	996	803	+24.0	2,153	3,268	-34.1
Swathers: Pull-Type	1,016	767	+32.5	3,037	3,884	-21.8
S-P	877	1,000	-12.3	2,520	3,506	-28.1

*Shear-bar type

THE USDA'S ALL-CROPS INDEX NOW STANDS AT A RECORD 118. As of October, corn production is now seen at 8.31 billion bu.--yielding 114.2 bu. per acre, a record high and up 4.3 bu. from the previous peak last year. All wheat production is now seen at 2.81 billion bu.--35.6 bu. per acre, a record high, though winter wheat at 36 bu. was less than the record 36.9 bu. per acre set in 1979. Soybean output is seen at 2.3 billion bu., averaging 32.4 bu. per acre, another yield record.

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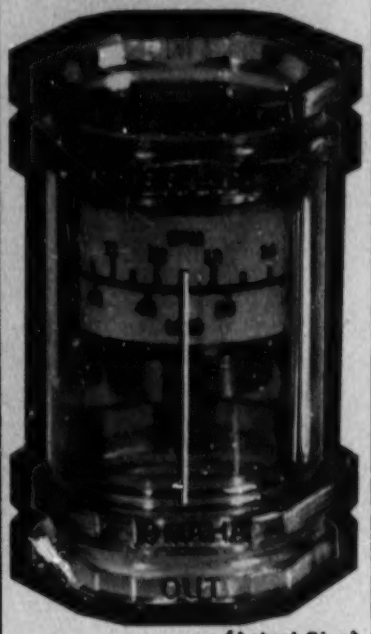
INEXPENSIVE FLOW METER REDUCES HYDRAULIC PROBLEMS



(Actual Size)

The new FM Flow Meter from Brand is so inexpensive you can make it a permanent part of your hydraulic system. Install it in the return line and you can anticipate the majority of hydraulic breakdowns before they happen. A low-pressure instrument, manufactured from high impact polysulfone, it's the ultimate preventive maintenance tool for hydraulic systems. The FM Flow Meter features direct-reading scale with ± 2.5% accuracy. It is available with 15 or 30 gallon scales and a variety of fittings to adapt to most installations.

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Omaha, NE 68105

Circle (15) on Reply Card

	Two-Wheel-Drive Tractors						
State	40-49	50-59	60-69	70-79	80-99	100-119	120-139
Alabama	465	240	171	200	177	146	24
Alaska	19	21	4	1	5	3	.....
Arizona	40	35	61	61	151	155	12
Arkansas	551	289	264	99	137	94	23
California	419	327	812	856	628	273	46
Colorado	70	90	88	24	94	92	36
Connecticut	36	46	41	7	20	12	.....
Delaware	14	15	13	12	11	9	6
Florida	497	260	362	371	334	224	21
Georgia	628	264	271	181	253	147	50
Hawaii	21	9	6	11	8	1	.....
Idaho	50	92	119	47	205	186	103
Illinois	189	194	328	273	371	420	171
Indiana	149	170	235	140	251	224	84
Iowa	73	133	288	231	625	768	239
Kansas	91	79	153	84	247	388	175
Kentucky	806	645	554	280	362	154	30
Louisiana	608	226	253	151	134	156	26
Maine	69	33	47	9	32	31	9
Maryland	109	84	75	38	91	62	11
Massachusetts	36	51	21	21	13	9	.....
Michigan	213	277	338	198	337	268	94
Minnesota	81	182	363	213	688	616	212
Mississippi	419	226	219	129	166	160	39
Missouri	327	323	474	205	435	320	101
Montana	125	107	116	30	154	123	55
Nebraska	46	38	90	39	267	413	110
Nevada	7	16	12	3	13	6	.....
New Hampshire	30	35	24	12	27	5	1
New Jersey	65	33	22	23	43	16	3
New Mexico	55	28	38	34	26	20	9
New York	209	245	374	203	628	259	41
North Carolina	785	367	346	209	435	183	53
North Dakota	16	39	49	30	92	282	168
Ohio	309	328	384	193	384	285	89
Oklahoma	351	182	176	113	258	371	72
Oregon	250	176	173	79	153	80	13
Pennsylvania	291	283	371	159	357	193	40
Rhode Island	6	2	2	1	1	2	.....
South Carolina	270	151	131	96	127	52	19
South Dakota	14	35	65	41	208	301	90
Tennessee	746	420	336	164	242	174	34
Texas	2,000	1,004	1,019	712	928	968	180
Utah	80	91	85	49	88	70	29
Vermont	53	49	79	15	84	22	4
Virginia	462	300	250	111	240	97	25
Washington	405	333	185	90	117	46	15
West Virginia	125	77	65	20	41	7	2
Wisconsin	107	285	683	338	900	644	182
Wyoming	17	32	36	13	68	40	14
U.S. Government	.....	.....	7	2	.....	6	.....
Miscellaneous	58	1	22	150	11	5	.....
TOTAL	**12,862**	**9,268**	**10,705**	**6,471**	**11,667**	**9,588**	**2,760**

1981 Retail Sales of Farm Wheel Tractors by PTO Horsepower (In units)

					Four-Wheel Drive Tractors					
130-139	140-149	150-179	180 & over	Total 2-Wheel Drive	Under 200	200-249	250 & over	Total 4-Wheel Drive	All Farm Wheel Tractors	State
163	45	71	36	1,738	9	9	10	28	1,766	Alabama
1	.....	2	.....	56	.....	.....	1	1	57	Alaska
151	45	60	43	814	31	31	23	85	899	Arizona
280	210	353	386	2,686	98	114	116	328	3,014	Arkansas
249	37	180	121	3,948	147	162	144	453	4,401	California
223	40	150	75	982	111	76	31	218	1,200	Colorado
7	2	3	1	175	2	.....	.....	2	177	Connecticut
15	1	12	.....	108	1	2	.....	3	111	Delaware
130	45	43	27	2,314	25	33	12	70	2,384	Florida
308	63	154	85	2,404	13	10	5	28	2,432	Georgia
.....	.....	3	.....	59	1	.....	6	7	66	Hawaii
241	63	171	10	1,287	121	103	40	264	1,551	Idaho
1,146	331	782	324	4,529	469	260	142	871	5,400	Illinois
503	151	328	164	2,399	206	122	68	396	2,795	Indiana
1,781	458	625	218	5,437	374	191	89	654	6,091	Iowa
891	126	363	249	2,646	244	168	93	505	3,151	Kansas
137	22	65	52	3,107	26	12	5	43	3,150	Kentucky
254	180	283	249	2,525	96	58	50	204	2,729	Louisiana
13	3	6	.....	252	6	.....	1	7	259	Maine
52	11	18	12	563	5	6	7	18	581	Maryland
2	.....	.....	.....	153	.....	.....	.....	.....	153	Massachusetts
348	67	157	56	2,353	229	96	51	376	2,729	Michigan
1,082	211	388	94	4,130	346	182	117	645	4,775	Minnesota
281	239	321	279	2,478	52	48	71	171	2,649	Mississippi
605	158	204	151	3,303	138	69	59	266	3,569	Missouri
123	32	43	28	936	114	123	94	331	1,267	Montana
887	229	332	187	2,638	152	66	34	252	2,890	Nebraska
12	.....	2	1	72	8	4	.....	12	84	Nevada
.....	1	.....	.....	135	.....	.....	.....	.....	135	New Hampshire
12	3	4	.....	224	.....	.....	.....	.....	224	New Jersey
63	23	34	14	344	11	18	6	35	379	New Mexico
174	32	38	7	2,210	128	27	18	173	2,383	New York
170	54	100	76	2,778	32	13	5	50	2,828	North Carolina
603	141	328	137	1,885	388	292	207	887	2,772	North Dakota
398	86	175	80	2,711	206	81	56	343	3,054	Ohio
460	46	201	104	2,334	137	108	50	295	2,629	Oklahoma
94	16	54	10	1,098	64	29	20	113	1,211	Oregon
122	21	19	11	1,867	32	20	4	56	1,923	Pennsylvania
.....	.....	.....	.....	14	.....	.....	.....	.....	14	Rhode Island
84	26	41	52	1,049	16	11	5	32	1,081	South Carolina
425	68	168	35	1,450	151	66	75	292	1,742	South Dakota
282	55	129	71	2,653	25	16	16	57	2,710	Tennessee
1,744	576	742	536	10,409	276	198	106	580	10,989	Texas
54	5	21	11	583	14	4	6	24	607	Utah
16	3	7	.....	332	5	.....	1	6	338	Vermont
78	14	19	22	1,618	14	2	3	19	1,637	Virginia
116	9	50	5	1,371	98	56	37	191	1,562	Washington
3	.....	2	1	343	.....	.....	.....	.....	343	West Virginia
513	154	166	63	4,036	166	59	30	255	4,290	Wisconsin
71	15	21	8	335	26	4	7	37	372	Wyoming
2	.....	.....	.....	17	.....	.....	.....	.....	17	U.S. Government
5	.....	6	7	265	.....	.....	.....	.....	265	Miscellaneous
15,174	4,115	7,444	4,098	94,152	4,813	2,949	1,921	9,683	103,835	TOTAL

DATA: Farm & Industrial Equipment Institute. Figures do not include garden tractors, motor tillers, or contractor's off-highway types. Report includes units marketed by these firms: Allied Farm Equip. (Leyland, Satoh); Allis-Chalmers; Belarus; J I Case; Deere; Deutz; Ford; International Harvester; Long; Massey-Ferguson; Steiger; Versatile; R.M. Wade (Satoh); and White. Sales reported as miscellaneous are retail sales which cannot be classified by state or as U.S. Government. They include sales and dispositions that do not go through usual marketing channels such as gifts to non-profit organizations, intra-plant or company transfers, etc.

RETAIL SALES OF SELECTED FARM EQUIPMENT – Jan.-Dec. 1980 and 1981(1)
(In Units)

	Combines Self-Propelled		Corn Heads		Hay Balers(2)		Windrowers Self-Propelled				Grinder-Mixers		Shear-Bar Forage Harvesters(3)	
							Power Units		Total Heads					
	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981
Alabama	245	261	66	61	153	221	2	.....	1	.....	135	91	37	37
Alaska	5	5	.....	.....	19	14	3	.....	4	.....	1	3	.....	1
Arizona	60	82	7	2	44	50	64	63	78	73	8	7	11	13
Arkansas	672	820	5	4	186	275	.....	5	.....	5	82	44	11	14
California	284	353	53	62	174	162	281	287	311	317	5	6	74	91
Colorado	341	337	158	130	437	395	222	209	237	226	68	56	102	58
Connecticut	.....	1	.....	2	56	55	.....	.....	.....	.....	1	1	42	42
Delaware	43	30	44	32	15	8	1	1	1	1	8	10	12	3
Florida	78	64	51	30	77	86	.....	2	.....	2	46	16	26	34
Georgia	384	458	302	215	197	244	1	.....	1	.....	265	97	105	93
Hawaii	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....
Idaho	440	443	22	14	600	495	404	291	413	306	66	31	75	41
Illinois	2,708	2,734	2,621	2,663	327	246	23	11	23	13	496	365	261	214
Indiana	1,489	1,315	1,615	1,345	316	303	8	8	8	8	390	229	191	128
Iowa	2,928	2,966	3,108	3,182	328	304	137	129	145	141	1,290	954	565	390
Kansas	1,888	1,786	343	209	312	343	290	281	300	298	252	163	263	178
Kentucky	363	364	284	238	292	332	3	27	3	30	306	187	182	159
Louisiana	447	416	3	5	68	121	.....	.....	.....	.....	21	13	19	11
Maine	7	6	.....	4	70	76	2	.....	2	.....	1	2	46	37
Maryland	149	148	171	167	118	90	13	7	14	7	39	27	77	72
Massachusetts	.....	.....	.....	.....	50	45	6	.....	6	.....	3	.....	39	33
Michigan	596	595	566	581	382	286	64	45	65	46	263	181	420	296
Minnesota	1,652	1,619	1,481	1,377	735	673	648	592	666	624	629	536	873	649
Mississippi	543	536	6	15	79	127	2	.....	2	.....	48	38	62	49
Missouri	1,043	1,319	501	430	436	528	86	46	94	48	509	337	191	130
Montana	414	569	7	11	388	285	443	416	491	470	76	52	37	39
Nebraska	1,517	1,497	1,416	1,173	211	185	307	286	321	309	504	362	359	320
Nevada	3	3	.....	.....	40	30	59	49	63	51	2	2	8	7
New Hampshire	.....	.....	.....	.....	58	52	.....	.....	.....	.....	.....	2	34	33
New Jersey	26	19	21	12	41	39	1	.....	1	.....	11	11	17	8
New Mexico	42	50	16	7	128	144	63	61	67	65	12	12	9	6
New York	191	206	243	266	769	588	69	53	70	54	129	117	853	776
North Carolina	419	462	400	420	303	287	2	1	2	1	162	118	96	97
North Dakota	1,014	1,352	58	124	58	69	588	762	639	850	146	111	144	197
Ohio	1,213	868	1,132	864	528	485	9	10	9	10	406	250	269	211
Oklahoma	642	650	23	13	407	504	104	113	111	119	131	84	38	34
Oregon	243	247	10	23	413	323	281	207	301	234	33	23	49	57
Pennsylvania	198	217	291	252	751	670	55	43	57	44	321	230	539	489
Rhode Island	.....	.....	.....	.....	7	2	7	.....	6	.....	.....	.....	1	2
South Carolina	221	221	131	106	85	98	.....	.....	.....	.....	66	38	37	39
South Dakota	513	586	302	291	98	83	536	466	580	524	332	221	395	323
Tennessee	381	458	156	126	389	528	1	2	1	2	207	181	145	147
Texas	974	1,219	303	268	762	1,120	86	93	91	106	250	170	85	84
Utah	40	46	10	5	339	338	131	129	144	135	33	16	99	59
Vermont	1	9	1	14	110	106	4	5	4	5	.....	3	159	115
Virginia	125	159	127	129	393	303	7	10	7	11	97	79	202	164
Washington	460	447	39	50	432	384	195	122	198	149	21	9	146	76
West Virginia	5	3	7	3	166	128	1	.....	1	.....	28	15	31	29
Wisconsin	675	620	832	717	1,481	1,207	394	290	403	300	542	425	1,978	1,499
Wyoming	59	60	14	16	192	210	197	167	213	176	27	20	45	20
U.S. Government	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Miscellaneous (4)	.....	3	7	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
TOTAL	25,741	26,831	17,154	15,700	14,022	13,647	5,802	5,291	6,152	5,760	8,468	5,945	9,461	7,604

Data released Feb. 22, 1982, Farm & Industrial Equipment Institute.

(1) Includes revisions for prior months.
(2) For making bales of under 200 lbs.
(3) Pull-type, mounted, self-propelled.
(4) Sales reported as miscellaneous are retail sales which cannot be classified by state or as U.S. Government. They include sales and dispositions that do not go through usual marketing channels such as gifts to non-profit organizations, intra-plant or company transfers, etc.

Mower Conditioners All Types 1980	1981	Manure Spreaders Conveyor-Type 1980	1981	
141	172	18	17	Alabama
8	12	1	3	Alaska
12	15	8	6	Arizona
371	474	89	79	Arkansas
45	43	70	63	California
160	141	58	46	Colorado
96	55	64	60	Connecticut
19	10	58	45	Delaware
87	91	31	25	Florida
229	213	47	32	Georgia
.....	.....	1	.....	Hawaii
167	151	137	104	Idaho
606	543	593	477	Illinois
529	495	489	400	Indiana
1,095	977	1,393	1,234	Iowa
638	634	201	137	Kansas
817	917	266	244	Kentucky
48	80	29	16	Louisiana
117	108	113	58	Maine
116	103	215	145	Maryland
53	57	72	58	Massachusetts
685	471	750	634	Michigan
1,062	988	1,537	1,204	Minnesota
101	105	19	17	Mississippi
1,199	1,461	321	252	Missouri
155	168	51	26	Montana
485	463	345	192	Nebraska
9	9	6	4	Nevada
75	56	59	37	New Hampshire
58	39	55	41	New Jersey
23	27	11	8	New Mexico
1,178	1,017	1,545	1,311	New York
285	251	145	103	North Carolina
140	160	107	66	North Dakota
608	632	820	645	Ohio
617	673	57	29	Oklahoma
279	184	112	79	Oregon
934	784	1,222	1,005	Pennsylvania
4	3	.....	.....	Rhode Island
79	135	30	14	South Carolina
91	134	216	175	South Dakota
569	755	156	123	Tennessee
1,120	1,467	144	139	Texas
205	181	118	85	Utah
250	195	223	202	Vermont
674	529	232	137	Virginia
262	201	137	95	Washington
177	152	64	61	West Virginia
2,519	1,895	2,253	1,814	Wisconsin
55	75	37	26	Wyoming
.....	.....	.....	.....	U.S. Government
.....	.....	8	.....	Miscellaneous
19,452	18,521	14,733	11,773	TOTAL

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Motor Vehicles and Specified Machines on U.S. Farms and Average Prices of Wheel Tractors, January 1, Designated Years[1]

Year	Tractors (exclusive of steam & garden)[2] Thousands	Motor Trucks Thousands	Grain Combines Thousands	Corn Pickers and Picker Shellers Thousands	Pick-up Balers Thousands	Field Forage Harvesters Thousands	Garden Tractors and Motor Tillers[3] Thousands	Wheel Tractors Wholesale Prices[4] Per Unit Dollars	Horsepower Dollars
1927	693	662	.....	.....	.....	.....	.....	.....	.....
1928	782	753	.....	.....	.....	.....	.....	.....	.....
1929	827	840	.....	.....	.....	.....	.....	.....	.....
1930	920	900	61	50	.....	.....	.....	.....	.....
1931	997	920	.....	.....	.....	.....	.....	.....	.....
1932	1,022	910	.....	.....	.....	.....	.....	.....	.....
1933	1,019	885	.....	.....	.....	.....	.....	.....	.....
1934	1,016	875	.....	.....	.....	.....	.....	.....	.....
1935	1,048	890	.....	.....	.....	.....	.....	.....	.....
1936	1,125	923	.....	.....	.....	.....	.....	.....	.....
1937	1,230	990	.....	.....	.....	.....	.....	.....	.....
1938	1,370	1,042	.....	.....	.....	.....	.....	.....	.....
1939	1,445	1,020	.....	.....	.....	.....	.....	.....	.....
1940	1,545	1,047	190	110	.....	.....	.....	.....	.....
1941	1,675	1,095	225	120	.....	.....	.....	.....	.....
1942	1,885	1,160	275	130	25	.....	.....	.....	.....
1943	2,100	1,280	320	138	31	.....	.....	$ 579	$ 21
1944	2,215	1,385	345	146	34	.....	.....	$ 658	$ 24
1945	2,354	1,490	275	168	42	20	68	$ 665	$ 25
1946	2,480	1,550	420	203	54	25	80	$ 733	$ 28
1947	2,613	1,700	465	238	65	30	122	$ 783	$ 30
1948	2,821	1,900	535	299	90	45	159	$ 890	$ 33
1949	3,123	2,065	620	372	135	60	192	$ 994	$ 35
1950	3,399	2,209	714	456	196	81	216	$ 1,073	$ 37
1951	3,678	2,310	810	522	240	102	242	$ 1,234	$ 42
1952	3,907	2,410	887	586	298	124	268	$ 1,297	$ 42
1953	4,100	2,520	930	630	345	148	296	$ 1,359	$ 39
1954	4,243	2,610	965	660	395	175	315	$ 1,513	$ 39
1955	4,345	2,675	980	688	448	202	332	$ 1,554	$ 39
1956	4,480	2,707	1,005	715	505	220	353	$ 1,682	$ 41
1957	4,570	2,745	1,015	740	560	240	375	$ 1,842	$ 41
1958	4,620	2,775	1,030	755	600	258	400	$ 2,111	$ 46
1959	4,673	2,800	1,045	775	645	270	425	$ 2,189	$ 48
1960	4,688	2,834	1,042	792	680	291	450	$ 2,338	$ 49
1961	4,743	2,850	980	740	685	291	468	$ 2,578	$ 50
1962	4,763	2,885	960	730	703	300	485	$ 2,819	$ 51
1963	4,778	2,925	940	720	718	307	500	$ 3,046	$ 53
1964	4,786	2,970	920	705	734	312	513	$ 3,443	$ 53
1965	4,787	3,030	910	690	751	316	699	$ 3,541	$ 56
1966	4,783	3,017	888	686	752	316	725	$ 3,886	$ 58
1967	4,786	3,009	867	680	748	319	750	$ 4,257	$ 62
1968	4,766	3,016	847	673	739	321	770	$ 4,709	$ 66
1969	4,712	3,004	820	657	725	314	790	$ 4,976	$ 71
1970	4,619	2,978	790	635	708	304	805	$ 5,560	$ 76
1971	4,562	2,985	760	629	698	309	815	$ 6,190	$ 80
1972	4,509	2,993	725	625	687	315	825	$ 6,486	$ 84
1973	4,477	3,006	703	618	680	324	835	$ 6,953	$ 85
1974	4,478	3,020	685	618	677	332	850	$ 7,294	$ 86
1975	4,463	3,032	666	615	666	337	870	$ 8,459	$ 91
1976	4,434	3,043	647	610	642	342	890	$11,220	$112
1977	4,381	3,052	630	605	614	346	905	$12,692	$124
1978	4,350	3,054	615	600	595	345	917	$13,431	$144
1979	4,990	3,555	664	694	769	376	1,060	$16,512	$149
1980	4,960	3,566	677	690	761	381	1,075	$18,139	$166
1981	4,925	3,577	690	685	752	386	1,085	$23,308	$199
1982	4,855	3,585	698	680	742	388	1,090	$25,941	$204

[1]SOURCE: Reports of the USDA and the Bureau of the Census. After 1958, Alaska and Hawaii are included. On-farm data after 1970, except 1975 and 1979, are estimated by I&T.

[2]Consists of Wheel and Crawler Tractors only after 1944. Prior to 1945 some Garden Tractors may have been included but the number was small.

[3]Motor Tillers included after 1964.

[4]Estimated at wholesale level by dividing **Value of Manufacturers' Shipments** by **Units Shipped** and by **Maximum Belt Horsepower**, data are published in "Current Industrial Reports" of the Bureau of the Census.

Note: Data from the 1978 Census (Jan. 1, 1979 above) and later years, reflect changes in data collection, resulting in improved coverage by the Census and are not fully comparable with earlier years.

Principal Machines on Farms – 1982

STATE	WHEEL AND CRAWLER TRACTORS						TRACTOR MOLDBOARD PLOWS	
	1959 Census Number	1964 Census Number	1969 Census Number	1974 Census Number	1978[1] Census Number	Estimated July 1, 1982 Number	Estimated July 1, 1958 Number	Estimated July 1, 1982 Number
Maine	17,793	16,290	14,252	13,493	15,064	15,350	12,400	8,900
New Hampshire	6,605	6,253	4,953	4,989	5,584	5,960	4,600	2,770
Vermont	16,669	16,333	15,227	14,706	16,322	16,250	10,200	9,700
Massachusetts	12,068	11,575	9,537	9,341	10,902	11,500	8,800	5,930
Rhode Island	1,851	1,687	1,359	1,359	1,684	1,740	1,000	840
Connecticut	11,219	9,963	8,679	7,924	9,169	9,150	7,700	5,460
New York	138,670	136,304	122,645	118,313	128,248	129,100	107,000	80,000
New Jersey	24,726	22,042	19,984	19,324	22,991	22,830	21,500	17,000
Pennsylvania	144,759	144,149	126,810	124,251	142,844	145,000	118,600	98,700
Delaware	8,259	7,992	7,555	7,631	8,720	8,720	6,700	6,500
Maryland	37,291	37,203	34,174	34,705	40,699	40,900	30,500	28,200
NORTHEAST	**419,710**	**409,791**	**365,175**	**356,036**	**402,227**	**406,500**	**329,000**	**264,000**
Ohio	204,681	199,694	194,962	188,580	205,972	202,100	161,000	163,300
Indiana	186,853	181,086	174,055	167,382	183,002	179,500	149,000	145,200
Illinois	290,002	287,480	275,203	272,093	285,773	284,500	210,000	187,000
Iowa	327,863	329,172	318,998	317,052	328,292	324,800	235,000	221,200
Missouri	191,512	198,095	201,513	189,672	205,572	200,900	135,000	151,200
CORN BELT	**1,200,911**	**1,195,527**	**1,164,731**	**1,134,779**	**1,208,611**	**1,191,800**	**890,000**	**867,900**
Michigan	169,782	169,920	152,741	143,569	157,697	153,300	139,000	132,100
Wisconsin	234,387	247,427	229,752	237,457	258,119	260,300	171,000	168,500
Minnesota	275,833	284,887	258,614	260,535	282,533	283,000	210,000	187,200
LAKE STATES	**680,002**	**702,234**	**641,107**	**641,561**	**698,349**	**696,600**	**520,000**	**487,800**
North Dakota	121,039	122,056	118,069	123,072	121,966	122,500	84,000	70,500
South Dakota	115,639	120,100	111,532	114,456	112,782	111,200	84,000	70,600
Nebraska	175,254	180,423	166,098	170,423	177,691	179,100	108,000	97,900
Kansas	173,651	174,185	163,180	161,276	160,479	159,700	123,000	98,500
GREAT PLAINS	**585,764**	**596,764**	**558,879**	**569,317**	**572,918**	**572,500**	**399,000**	**337,500**
West Virginia	21,995	23,926	23,842	23,265	27,951	28,200	15,400	18,400
Kentucky	103,415	118,404	137,105	129,069	164,862	161,400	71,000	105,000
Tennessee	97,800	108,319	122,528	110,941	130,031	124,800	43,000	65,900
Virginia	75,143	78,989	79,347	76,121	90,284	88,700	52,000	62,800
North Carolina	140,639	149,850	150,825	130,140	152,917	143,100	57,600	72,800
APPALACHIAN	**438,992**	**479,488**	**513,647**	**469,536**	**566,045**	**546,200**	**239,000**	**324,900**
South Carolina	48,637	50,931	50,115	45,321	53,627	51,500	9,200	13,400
Georgia	89,392	89,049	84,366	77,067	85,049	82,400	23,500	33,700
Florida	35,820	41,295	42,958	44,192	57,226	60,200	12,300	20,300
Alabama	67,559	71,925	75,069	68,521	75,398	72,800	20,500	25,300
SOUTHEAST	**241,408**	**253,200**	**252,508**	**235,101**	**271,300**	**266,900**	**65,500**	**92,700**
Mississippi	84,425	90,347	88,677	76,808	80,964	76,800	29,700	32,500
Louisiana	53,229	60,618	63,194	55,933	64,337	62,500	15,400	22,600
Arkansas	83,852	90,993	86,977	78,083	89,421	87,100	41,900	50,100
DELTA STATES	**221,506**	**241,958**	**238,848**	**210,824**	**234,722**	**226,400**	**87,000**	**105,200**
Oklahoma	102,323	101,605	102,397	91,661	105,795	101,700	74,000	82,200
Texas	268,233	269,519	282,088	251,687	280,102	271,800	74,500	90,000
SOUTHERN PLAINS	**370,556**	**371,124**	**384,485**	**343,348**	**385,897**	**373,500**	**148,500**	**172,200**
Montana	59,510	61,832	58,729	58,457	55,941	58,800	30,500	28,200
Idaho	56,961	58,607	54,091	55,419	55,392	60,300	40,000	37,700
Wyoming	20,737	21,596	20,925	20,801	19,756	20,000	15,400	14,700
Colorado	64,051	63,906	59,112	58,091	59,959	61,400	34,000	28,600
New Mexico	17,146	17,919	15,998	17,021	17,546	18,200	11,300	8,700
Arizona	13,443	13,747	12,136	13,812	12,749	14,250	4,200	3,400
Utah	21,803	22,256	20,128	21,110	22,206	23,500	17,500	15,500
Nevada	5,297	5,557	5,318	5,515	5,453	5,850	3,100	2,700
MOUNTAIN STATES	**258,948**	**265,420**	**246,437**	**250,225**	**249,002**	**262,300**	**156,000**	**139,500**
Washington	63,114	65,813	58,600	59,542	58,190	68,000	42,000	40,600
Oregon	56,732	58,741	51,223	52,651	52,283	59,400	44,000	37,900
California	147,390	142,812	138,914	140,393	136,256	164,900	70,000	67,800
PACIFIC	**267,236**	**267,366**	**248,737**	**252,586**	**246,729**	**292,300**	**156,000**	**146,300**
TOTAL	**4,684,852**	**4,782,872**	**4,614,554**	**4,463,314**	**4,835,800**	**4,835,000**	**2,990,000**	**2,938,000**

[1]Only wheel tractors are included in the 1978 Census.

Principal Machines on Farms—1982

STATE	COMBINES[1] 1964 Census Number	1969 Census Number	1974 Census Number	1978 Census Number	Estimated July 1, 1982 Number	CORN HEADS FOR COMBINES[2] 1969 Census Number	1974 Census Number	1978 Census Number	Estimated July 1, 1982 Number
Maine	875	218	242	415	430	120	141	192	200
New Hampshire	27	8	5	18	15	65	55	64	60
Vermont	344	113	87	170	165	175	238	375	410
Massachusetts	70	34	35	47	50	84	103	113	120
Rhode Island	20	5	7	15	15	21	10	23	20
Connecticut	77	40	15	86	75	92	85	157	160
New York	16,536	4,902	5,114	5,994	6,150	1,706	2,344	3,576	4,050
New Jersey	1,726	634	766	1,226	1,260	269	324	671	700
Pennsylvania	23,939	6,777	7,297	9,851	10,066	1,924	2,636	4,443	4,930
Delaware	1,780	979	1,127	1,351	1,400	566	681	1,035	1,070
Maryland	5,237	2,604	2,740	3,610	3,750	1,555	1,954	2,799	3,080
NORTHEAST	**50,631**	**16,314**	**17,435**	**22,783**	**23,370**	**6,577**	**8,571**	**13,448**	**14,800**
Ohio	50,291	20,805	26,009	33,996	35,900	11,892	17,515	24,522	27,300
Indiana	46,395	23,371	29,485	37,695	40,800	17,920	24,616	32,737	36,400
Illinois	80,857	48,116	55,085	63,650	68,700	37,649	46,362	56,213	61,500
Iowa	86,178	28,221	42,117	55,889	64,400	22,302	37,864	53,427	62,200
Missouri	44,535	24,208	26,253	34,029	35,500	16,112	18,278	23,544	24,600
CORN BELT	**308,256**	**145,221**	**178,949**	**225,259**	**245,300**	**105,875**	**144,635**	**190,443**	**212,000**
Michigan	41,360	13,053	14,649	19,474	20,350	4,306	7,098	11,333	12,970
Wisconsin	45,516	10,859	13,392	18,553	19,900	3,566	5,147	8,589	9,860
Minnesota	71,748	27,189	35,033	45,225	49,800	12,102	18,780	27,390	31,200
LAKE STATES	**158,624**	**51,101**	**63,074**	**83,252**	**90,050**	**19,974**	**31,025**	**47,312**	**54,030**
North Dakota	41,782	26,952	27,273	31,112	31,800	753	864	1,619	1,740
South Dakota	26,289	11,926	13,941	16,587	17,700	3,483	5,386	7,759	8,900
Nebraska	43,205	25,730	29,224	35,147	37,500	13,370	18,578	24,687	27,750
Kansas	59,813	41,601	41,871	47,650	48,100	6,533	8,038	9,282	10,000
GREAT PLAINS	**173,089**	**107,209**	**112,309**	**130,496**	**135,100**	**24,139**	**32,866**	**43,347**	**48,390**
West Virginia	1,020	245	307	479	490	147	199	265	300
Kentucky	9,737	4,565	6,329	10,760	11,730	3,196	4,390	8,510	9,130
Tennessee	11,537	5,773	6,843	10,952	11,620	2,458	2,734	5,634	5,800
Virginia	9,281	3,769	4,309	6,150	6,220	2,243	2,972	4,487	4,830
North Carolina	14,847	7,982	8,828	13,535	14,140	5,279	6,696	10,671	11,700
APPALACHIAN	**46,422**	**22,334**	**26,616**	**41,876**	**44,200**	**13,323**	**16,991**	**29,567**	**31,760**
South Carolina	7,085	4,483	4,706	6,609	6,740	1,803	2,285	3,931	4,130
Georgia	9,177	5,408	6,255	9,924	10,750	4,036	4,836	7,637	8,050
Florida	1,230	1,010	1,182	1,792	1,970	584	773	1,207	1,250
Alabama	4,806	3,423	3,988	6,958	7,440	1,635	1,858	3,468	3,600
SOUTHEAST	**22,298**	**14,324**	**16,131**	**25,283**	**26,900**	**8,058**	**9,752**	**16,243**	**17,030**
Mississippi	6,099	6,977	6,893	10,190	10,400	441	310	593	605
Louisiana	5,145	6,414	7,034	9,715	10,210	357	231	403	350
Arkansas	13,086	12,657	11,484	14,095	14,000	294	725	292	300
DELTA STATES	**24,330**	**26,048**	**25,411**	**34,000**	**34,610**	**1,092**	**1,266**	**1,288**	**1,255**
Oklahoma	21,668	14,909	14,797	18,006	18,050	457	511	900	930
Texas	31,355	21,223	19,394	23,742	23,150	1,743	1,858	3,684	3,930
SOUTHERN PLAINS	**53,023**	**36,132**	**34,191**	**41,748**	**41,200**	**2,200**	**2,369**	**4,584**	**4,860**
Montana	16,011	11,687	11,392	13,225	13,290	121	107	101	100
Idaho	11,330	7,639	8,113	10,180	10,620	202	252	458	480
Wyoming	2,962	1,523	1,690	2,017	2,100	112	149	180	210
Colorado	11,062	6,937	7,338	8,488	8,890	1,032	1,632	2,397	2,740
New Mexico	1,898	1,041	1,229	1,541	1,650	52	117	248	270
Arizona	559	412	530	513	590	25	23	70	70
Utah	2,421	1,442	1,442	1,748	1,800	134	196	186	200
Nevada	277	201	253	269	280	9	21	3	5
MOUNTAIN STATES	**46,520**	**30,882**	**31,987**	**37,981**	**39,220**	**1,687**	**2,497**	**3,641**	**4,075**
Washington	9,706	6,891	7,330	8,471	8,950	307	269	490	500
Oregon	8,372	5,107	5,266	6,442	6,600	167	106	185	170
California	8,366	5,619	5,373	6,492	6,500	633	696	1,085	1,130
PACIFIC	**26,444**	**17,617**	**17,969**	**21,405**	**22,050**	**1,107**	**1,071**	**1,760**	**1,800**
TOTAL	**909,637**	**467,182**	**524,072**	**664,083**	**702,000**	**184,032**	**251,043**	**351,633**	**390,000**

[1]The Census in 1964 included self-propelled and pull types. The Census in 1969, 1974, 1978 and the estimated number for July 1, 1982 cover only self-propelled combines.
[2]The Census in 1969 included only corn heads on class 1-5 farms ($2,500 or more of income). The Census in 1974, 1978 and the estimated number for July 1, 1982 cover all farms.

Principal Machines on Farms – 1982

STATE	PICK-UP BALERS					FIELD FORAGE HARVESTERS[1]				
	1964 Census Number	1969 Census Number	1974 Census Number	1978 Census Number	Estimated July 1, 1982 Number	1964 Census Number	1969 Census Number	1974 Census Number	1978 Census Number	Estimated July 1, 1982 Number
Maine	3,339	2,446	2,255	2,770	2,660	998	712	914	1,341	2,100
New Hampshire	1,681	1,266	1,197	1,448	1,420	747	385	612	553	710
Vermont	5,796	4,171	3,975	4,434	4,300	2,358	1,542	2,328	2,798	3,800
Massachusetts	2,343	1,774	1,600	1,900	1,800	1,412	744	923	1,185	1,600
Rhode Island	250	171	172	209	205	233	88	122	138	170
Connecticut	1,971	1,604	1,313	1,715	1,520	1,561	788	777	831	1,020
New York	38,107	31,074	27,495	30,762	28,800	20,710	13,815	17,363	20,891	27,600
New Jersey	3,073	2,357	2,066	2,458	2,230	2,181	1,171	1,127	1,255	1,450
Pennsylvania	41,873	35,571	32,195	38,745	36,900	20,794	12,240	15,485	19,187	28,000
Delaware	664	609	628	618	595	475	245	422	282	390
Maryland	6,845	5,750	5,159	6,083	5,740	3,961	2,177	2,603	2,943	4,350
NORTHEAST	**105,942**	**86,793**	**78,055**	**91,142**	**86,170**	**55,430**	**33,907**	**42,676**	**51,404**	**71,190**
Ohio	43,607	40,101	36,137	39,170	36,700	11,759	7,788	9,757	11,419	16,800
Indiana	25,459	23,414	21,705	24,655	23,400	7,523	5,344	6,121	6,912	9,750
Illinois	38,163	33,291	29,822	31,487	29,200	16,295	10,130	11,333	11,905	15,500
Iowa	60,111	55,456	47,461	47,729	42,900	20,937	14,245	17,179	19,479	26,500
Missouri	36,265	38,929	38,487	44,886	43,700	9,315	6,884	7,430	8,786	9,870
CORN BELT	**203,605**	**191,191**	**173,612**	**187,927**	**175,900**	**65,829**	**44,391**	**51,820**	**58,501**	**78,420**
Michigan	31,502	26,915	23,897	26,039	24,100	15,077	8,986	11,682	12,986	17,070
Wisconsin	63,921	56,939	54,962	59,847	56,300	48,149	27,199	38,341	43,574	60,800
Minnesota	55,896	51,600	46,689	50,534	47,400	26,024	17,761	20,825	23,437	29,700
LAKE STATES	**151,319**	**135,454**	**125,548**	**136,420**	**129,800**	**89,250**	**53,946**	**70,848**	**79,997**	**107,570**
North Dakota	15,823	15,623	14,831	15,380	14,670	9,555	6,614	5,911	5,539	5,800
South Dakota	14,441	14,657	13,835	14,258	13,500	10,810	9,755	11,254	11,364	12,100
Nebraska	19,907	18,988	17,309	17,160	15,900	13,268	11,232	12,632	13,935	15,960
Kansas	28,086	27,464	26,846	29,550	28,600	17,035	11,712	10,651	10,844	11,580
GREAT PLAINS	**78,257**	**76,732**	**72,821**	**76,348**	**72,670**	**50,668**	**39,313**	**40,448**	**41,682**	**45,440**
West Virginia	7,382	8,013	7,444	10,051	9,550	1,155	1,143	1,478	2,134	2,680
Kentucky	21,476	24,121	23,536	32,538	31,600	3,157	3,621	4,400	8,269	9,830
Tennessee	15,234	17,686	17,090	22,597	22,050	3,004	2,953	3,602	5,579	6,720
Virginia	16,105	16,035	15,285	19,222	18,530	4,450	4,181	4,675	6,343	7,380
North Carolina	10,322	10,053	10,115	12,591	12,400	3,365	2,695	3,841	4,317	5,120
APPALACHIAN	**70,499**	**75,908**	**73,470**	**96,999**	**94,130**	**15,129**	**14,593**	**17,996**	**26,642**	**31,530**
South Carolina	4,468	3,857	3,719	4,763	4,670	1,139	887	1,075	1,381	1,760
Georgia	6,917	7,118	6,678	8,909	8,700	1,696	1,455	1,722	2,652	3,440
Florida	1,419	1,692	1,910	2,885	2,800	543	447	629	916	1,400
Alabama	6,231	7,227	7,662	10,393	10,400	1,233	1,250	1,513	2,158	2,680
SOUTHEAST	**19,035**	**19,894**	**19,969**	**26,950**	**26,570**	**4,611**	**4,039**	**4,939**	**7,107**	**9,280**
Mississippi	6,618	7,045	7,431	8,752	8,680	1,697	1,531	2,130	2,168	2,550
Louisiana	5,064	4,831	4,594	6,192	5,940	775	763	872	1,872	2,650
Arkansas	6,456	7,500	8,040	11,022	10,800	1,181	1,014	1,047	1,882	2,180
DELTA STATES	**18,138**	**19,376**	**20,065**	**25,966**	**25,420**	**3,653**	**3,308**	**4,049**	**5,922**	**7,380**
Oklahoma	12,965	14,246	14,432	20,032	19,800	2,820	1,872	1,740	2,420	2,780
Texas	15,737	18,208	18,534	28,338	28,600	4,643	3,556	3,215	5,451	6,280
SOUTHERN PLAINS	**28,702**	**32,454**	**32,966**	**48,370**	**48,400**	**7,463**	**5,428**	**4,955**	**7,871**	**9,060**
Montana	11,458	11,059	10,615	11,857	11,450	1,736	1,695	1,512	2,130	2,450
Idaho	13,072	12,057	12,048	13,043	13,000	2,696	1,907	2,048	2,435	2,930
Wyoming	4,259	4,357	4,383	4,572	4,570	1,086	924	995	1,267	1,550
Colorado	9,600	9,504	9,505	10,564	10,670	5,252	3,744	3,755	4,418	5,180
New Mexico	2,340	2,532	2,833	3,427	3,540	560	490	591	786	1,000
Arizona	1,001	860	1,018	1,081	1,100	556	281	314	341	520
Utah	6,389	5,887	5,957	7,171	7,230	1,989	1,378	1,560	1,909	2,320
Nevada	1,264	1,177	1,299	1,524	1,540	291	189	233	367	510
MOUNTAIN STATES	**49,383**	**47,433**	**47,656**	**53,239**	**53,100**	**14,166**	**10,608**	**11,008**	**13,653**	**16,460**
Washington	9,759	8,658	8,215	9,327	9,250	3,734	1,837	2,234	3,019	5,280
Oregon	8,007	7,218	7,195	9,207	9,130	2,419	1,532	1,496	2,718	3,790
California	8,389	6,829	6,435	6,832	6,460	3,189	1,666	2,006	2,628	4,600
PACIFIC	**26,155**	**22,705**	**21,845**	**25,366**	**24,840**	**9,342**	**5,035**	**5,736**	**8,365**	**13,670**
TOTAL	**751,035**	**707,940**	**666,007**	**768,727**	**737,000**	**315,541**	**214,568**	**254,475**	**301,144**	**390,000**

[1]The Census in 1964 and the estimated number of July 1, 1982 include shear-bar and flail types. The Census in 1969, 1974 and 1978 covered only the number of shear-bar harvesters.

Principal Machines on Farms – 1982

STATE	POWER TRACTOR MOWERS (Cutter bar type only) Estimated July 1,1958 Number	POWER TRACTOR MOWERS (Cutter bar type only) Estimated July 1, 1982 Number	SIDE DELIVERY RAKES Estimated July 1, 1958 Number	SIDE DELIVERY RAKES Estimated July 1, 1982 Number	MOWER CONDITIONERS[1] 1974 Census Number	MOWER CONDITIONERS[1] 1978 Census Number	MOWER CONDITIONERS[1] Estimated July 1, 1982 Number
Maine	9,000	7,460	10,000	6,450	1,378	2,092	2,510
New Hampshire	4,400	3,400	5,000	2,740	605	1,029	1,210
Vermont	10,000	9,950	10,300	8,060	2,776	4,104	5,130
Massachusetts	5,800	4,430	6,000	3,860	1,048	1,568	1,840
Rhode Island	550	390	500	340	102	144	160
Connecticut	4,500	3,900	4,000	2,730	786	1,234	1,530
New York	55,000	61,800	61,000	50,900	18,701	26,674	32,800
New Jersey	7,000	5,020	8,000	4,380	1,636	2,518	2,580
Pennsylvania	60,000	68,500	67,000	53,800	20,428	30,551	34,800
Delaware	1,750	1,210	2,200	1,120	525	603	830
Maryland	14,000	12,640	13,000	9,900	3,614	4,944	5,670
NORTHEAST	**172,000**	**178,700**	**187,000**	**144,280**	**51,599**	**75,461**	**89,060**
Ohio	70,000	72,900	86,000	62,400	20,268	28,007	33,100
Indiana	64,000	57,200	71,000	45,900	12,503	16,162	20,350
Illinois	106,000	80,000	86,000	59,800	18,793	21,817	28,900
Iowa	115,000	118,700	127,000	100,100	19,636	26,631	33,800
Missouri	80,000	95,300	50,000	58,500	17,228	24,047	31,600
CORN BELT	**435,000**	**424,100**	**420,000**	**326,700**	**88,428**	**116,664**	**147,750**
Michigan	48,000	54,800	85,000	48,200	15,924	22,066	25,400
Wisconsin	93,000	117,500	115,000	100,500	36,232	52,723	65,300
Minnesota	96,000	109,200	108,000	97,500	22,979	32,101	37,600
LAKE STATES	**237,000**	**281,500**	**308,000**	**246,200**	**75,135**	**106,890**	**128,300**
North Dakota	42,000	45,600	26,000	25,700	5,971	6,395	8,430
South Dakota	44,000	53,000	31,000	26,000	4,445	5,715	6,240
Nebraska	61,000	63,900	41,000	39,900	9,225	15,128	15,130
Kansas	62,000	62,500	42,000	41,300	9,247	17,520	16,760
GREAT PLAINS	**209,000**	**225,000**	**140,000**	**132,900**	**28,888**	**44,758**	**46,560**
West Virginia	14,000	21,000	8,000	10,900	3,484	5,401	5,700
Kentucky	48,000	56,500	28,000	35,500	14,718	24,497	25,300
Tennessee	47,000	60,700	25,500	28,000	12,037	17,526	20,170
Virginia	28,000	37,300	25,500	27,400	8,714	13,099	15,300
North Carolina	27,000	36,500	15,000	18,100	6,824	10,767	11,060
APPALACHIAN	**164,000**	**212,000**	**102,000**	**119,900**	**45,777**	**71,290**	**77,530**
South Carolina	12,500	11,720	7,500	6,880	2,471	3,612	4,080
Georgia	23,000	21,900	12,000	12,170	6,383	9,451	9,900
Florida	7,500	4,400	2,200	2,200	4,000	7,114	5,940
Alabama	19,000	19,900	7,300	8,700	5,367	8,834	8,470
SOUTHEAST	**62,000**	**57,920**	**29,000**	**29,950**	**18,221**	**29,011**	**28,390**
Mississippi	21,000	25,500	5,000	11,400	5,282	8,041	8,220
Louisiana	12,000	12,900	6,000	7,140	4,421	7,396	6,400
Arkansas	24,000	24,530	12,000	12,070	5,521	8,653	10,150
DELTA STATES	**57,000**	**62,930**	**23,000**	**30,610**	**15,224**	**24,090**	**24,770**
Oklahoma	37,000	37,500	22,000	22,750	7,703	15,717	14,450
Texas	48,000	54,800	21,000	26,200	19,487	34,266	33,600
SOUTHERN PLAINS	**85,000**	**92,300**	**43,000**	**48,950**	**27,190**	**49,983**	**48,050**
Montana	23,000	25,100	15,000	15,940	3,205	7,513	4,850
Idaho	27,000	24,800	23,000	19,000	3,367	9,282	5,150
Wyoming	10,500	7,060	6,000	6,000	1,179	3,530	1,950
Colorado	24,000	18,600	25,000	17,000	2,712	7,449	4,260
New Mexico	8,000	5,470	8,000	4,880	1,005	2,451	1,470
Arizona	4,500	2,340	3,700	1,620	427	841	600
Utah	11,700	13,000	12,000	10,800	2,257	5,292	4,090
Nevada	2,300	1,830	2,300	1,740	384	1,286	540
MOUNTAIN STATES	**111,000**	**98,200**	**95,000**	**76,980**	**14,536**	**37,644**	**22,910**
Washington	27,000	25,000	16,000	15,550	4,218	8,536	6,580
Oregon	23,000	23,350	15,000	13,750	3,634	7,487	6,210
California	33,000	28,000	22,000	16,230	3,590	8,129	4,890
PACIFIC	**83,000**	**76,350**	**53,000**	**45,530**	**11,442**	**24,152**	**17,680**
TOTAL	**1,615,000**	**1,709,000**	**1,400,000**	**1,202,000**	**376,440**	**579,943**	**631,000**

[1]Does not include windrowers with conditioning rolls.

Principal Machines on Farms – 1982

STATE	POWER ELEVATORS Estimated July 1,1951 Number	POWER ELEVATORS Estimated July 1, 1958 Number	POWER ELEVATORS Estimated July 1, 1982 Number	Manure Spreaders Estimated July 1, 1982 Number	Corn and Cotton Planters Estimated July 1, 1982 Number	Grain Drills Estimated July 1, 1982 Number
Maine			5,400	3,490	360	935
New Hampshire			2,550	2,170	315	70
Vermont	1,200	12,000	8,170	6,910	1,750	360
Massachusetts			3,670	2,560	970	130
Rhode Island			520	300	115	35
Connecticut			4,270	2,630	1,125	95
New York	7,200	35,000	71,100	44,200	21,600	29,300
New Jersey	2,000	5,500	6,260	2,680	2,625	2,670
Pennsylvania	9,600	38,000	75,700	46,000	36,600	44,300
Delaware	500	2,000	4,000	1,930	2,320	2,215
Maryland	2,500	7,500	16,650	9,320	9,440	9,800
NORTHEAST	**23,000**	**100,000**	**198,290**	**122,190**	**77,220**	**89,910**
Ohio	27,000	68,000	129,800	62,000	70,100	70,000
Indiana	30,000	66,000	128,900	55,400	71,800	56,800
Illinois	61,000	110,000	196,500	81,000	104,700	71,500
Iowa	80,000	122,000	206,300	110,500	116,600	66,700
Missouri	15,000	41,000	91,800	62,700	55,400	57,700
CORN BELT	**213,000**	**407,000**	**753,300**	**371,600**	**418,600**	**322,700**
Michigan	14,000	45,000	92,100	40,800	42,400	56,400
Wisconsin	15,000	48,000	145,100	93,000	74,600	71,600
Minnesota	46,000	90,000	162,300	85,200	89,900	83,100
LAKE STATES	**75,000**	**183,000**	**399,500**	**219,000**	**206,900**	**211,100**
North Dakota	28,000	45,000	78,700	23,000	16,900	85,900
South Dakota	24,000	40,000	70,000	32,100	34,000	37,200
Nebraska	36,000	60,000	108,400	49,500	50,400	47,800
Kansas	25,000	55,000	115,700	41,500	24,700	78,200
GREAT PLAINS	**113,000**	**200,000**	**372,800**	**146,100**	**126,000**	**229,100**
West Virginia	500	3,000	6,950	9,300	5,820	4,080
Kentucky	2,500	10,000	26,850	31,000	43,000	12,600
Tennessee	1,000	6,500	16,500	22,700	58,000	15,800
Virginia	2,000	11,000	20,800	24,200	29,200	19,200
North Carolina	1,000	7,500	22,450	23,400	81,900	25,600
APPALACHIAN	**7,000**	**38,000**	**93,550**	**110,600**	**217,920**	**77,280**
South Carolina	300	2,000	5,100	4,400	34,500	13,250
Georgia	900	6,000	15,250	7,400	43,500	11,370
Florida	300	1,500	4,050	1,300	6,660	1,980
Alabama	500	4,500	12,500	4,980	47,500	8,000
SOUTHEAST	**2,000**	**14,000**	**36,900**	**18,080**	**132,160**	**34,600**
Mississippi	700	4,500	8,550	5,630	59,200	9,420
Louisiana	400	1,000	2,800	3,230	22,170	8,450
Arkansas	900	4,500	10,450	7,900	24,300	15,150
DELTA STATES	**2,000**	**10,000**	**21,800**	**16,760**	**105,670**	**33,020**
Oklahoma	6,000	12,000	27,860	10,200	10,400	36,600
Texas	9,000	23,000	44,250	19,300	62,300	57,000
SOUTHERN PLAINS	**15,000**	**35,000**	**72,110**	**29,500**	**72,700**	**93,600**
Montana	7,500	17,500	30,900	12,000	1,230	24,570
Idaho	3,100	13,300	27,070	15,000	2,990	18,000
Wyoming	700	2,500	5,550	5,210	1,090	4,780
Colorado	7,000	13,000	27,780	15,400	7,020	18,000
New Mexico	500	1,500	2,860	2,520	3,560	2,250
Arizona	100	700	2,000	1,070	2,180	1,660
Utah	700	5,000	11,140	8,250	1,920	6,340
Nevada	400	500	1,050	1,220	70	380
MOUNTAIN STATES	**20,000**	**54,000**	**108,350**	**60,670**	**20,060**	**75,980**
Washington	2,000	8,000	24,050	16,000	2,080	14,550
Oregon	3,000	8,000	19,400	14,000	1,290	13,660
California	4,000	13,000	25,950	16,500	10,400	10,500
PACIFIC	**9,000**	**29,000**	**69,400**	**46,500**	**13,770**	**38,710**
TOTAL	**479,000**	**1,070,000**	**2,126,000**	**1,141,000**	**1,391,000**	**1,206,000**

Principal Machines on Farms—1982

STATE	MOTOR TRUCKS							Internal Combustion Engines[2]	Chain Saws
	1954 Adj. Cen. 1,000's	1959 Census 1,000's	1964 Census 1,000's	1969 Census 1,000's	1974 Census 1,000's	1978 Census 1,000's	Estimated July 1, 1982 1,000's	Estimated July 1, 1982 Number	Estimated July 1, 1982 Number
Maine	18.1	17.3	14.8	12.1	11.3	13.5	13.6	1,820	8,640
New Hampshire	8.3	6.8	5.6	4.0	3.7	4.4	4.4	1,700	2,875
Vermont	11.1	10.0	8.1	6.1	6.2	7.9	8.0	2,400	7,140
Massachusetts	14.3	12.3	10.6	8.4	7.7	9.9	10.1	2,460	5,220
Rhode Island	1.9	1.9	1.8	1.2	1.2	1.5	1.5	250	730
Connecticut	13.2	11.0	9.9	7.4	6.2	7.5	7.6	2,150	4,375
New York	70.5	66.5	62.9	53.6	53.6	61.2	62.0	28,300	57,400
New Jersey	24,4	20.9	17.3	14.3	12.9	16.5	16.8	3,150	6,900
Pennsylvania	71.0	71.4	69.5	57.3	55.5	66.3	67.0	27,800	50,200
Delaware	5.2	5.3	5.2	5.1	5.7	6.5	6.6	1,260	2,900
Maryland	22.0	21.2	21.3	19.5	21.3	25.5	26.0	6,150	14,100
NORTHEAST	**260.0**	**244.6**	**227.0**	**189.0**	**185.3**	**220.7**	**223.6**	**77,440**	**160,480**
Ohio	77.0	81.5	91.4	93.7	97.8	112.9	114.4	26,500	69,900
Indiana	77.4	88.2	99.0	100.1	103.9	120.2	121.7	27,300	75,400
Illinois	99.9	113.7	120.9	129.3	139.9	155.4	157.5	40,400	81,800
Iowa	84.3	99.8	106.7	121.4	137.1	148.0	149.9	42,900	65,000
Missouri	95.8	109.7	123.0	132.5	134.0	162.5	164.7	43,800	108,650
CORN BELT	**434.4**	**492.9**	**541.0**	**577.0**	**612.7**	**699.0**	**708.2**	**180,900**	**400,750**
Michigan	70.5	75.7	80.5	74.6	73.6	83.4	84.5	24,300	52,400
Wisconsin	87.0	90.6	97.0	89.0	92.3	100.9	102.2	45,400	106,400
Minnesota	90.0	103.4	112.5	116.9	130.1	147.4	149.5	63,000	75,900
LAKE STATES	**247.5**	**269.7**	**290.0**	**280.5**	**296.0**	**331.7**	**336.2**	**132,700**	**234,700**
North Dakota	56.8	75.5	81.6	91.2	101.3	109.2	110.6	46,700	4,940
South Dakota	47.7	52.3	56.5	57.8	65.1	66.9	67.8	31,500	3,800
Nebraska	72.0	83.4	93.1	96.4	108.5	120.5	121.9	42,200	16,100
Kansas	112.1	122.3	134.0	141.3	150.9	164.4	166.7	55,500	26,700
GREAT PLAINS	**298.6**	**333.5**	**365.2**	**386.7**	**425.8**	**461.0**	**467.0**	**175,900**	**51,540**
West Virginia	26.0	24.7	24.1	19.5	16.9	21.8	22.0	6,600	24,800
Kentucky	66.7	74.9	90.5	97.1	95.8	125.4	127.0	21,700	51,250
Tennessee	71.6	76.8	86.3	92.8	88.1	104.6	105.9	16,400	67,700
Virginia	57.5	58.0	59.2	55.9	55.5	70.1	70.9	15,900	56,150
North Carolina	84.5	91.1	101.1	99.3	93.5	113.5	114.9	20,900	100,450
APPALACHIAN	**306.3**	**325.5**	**361.2**	**364.6**	**349.8**	**435.4**	**440.7**	**81,500**	**300,350**
South Carolina	39.2	39.1	39.0	35.3	33.7	40.5	40.9	8,200	28,370
Georgia	76.2	72.8	76.6	70.9	69.2	79.8	80.8	17,000	39,100
Florida	36.6	36.4	40.6	37.8	40.1	54.1	54.7	16,400	8,920
Alabama	63.7	63.4	69.5	67.4	64.4	75.1	76.0	13,900	36,800
SOUTHEAST	**215.7**	**211.7**	**225.7**	**211.4**	**207.4**	**249.5**	**252.4**	**55,500**	**113,190**
Mississippi	76.2	71.5	75.1	66.4	60.5	65.5	66.2	13,500	43,500
Louisiana	47.3	47.2	51.3	44.7	41.6	50.4	51.0	15,100	23,850
Arkansas	76.2	73.2	80.6	71.4	69.5	88.0	88.8	18,100	36,500
DELTA STATES	**199.7**	**191.9**	**207.0**	**182.5**	**171.6**	**203.9**	**206.0**	**46,700**	**103,850**
Oklahoma	85.7	92.7	105.1	106.8	101.6	126.2	127.5	27,400	11,820
Texas	187.8	197.8	211.0	227.6	208.1	257.3	257.9	79,600	23,060
SOUTHERN PLAINS	**273.5**	**290.5**	**316.1**	**334.4**	**309.7**	**383.5**	**385.4**	**106,000**	**34,880**
Montana	48.5	52.8	58.2	58.3	61.9	68.9	69.9	24,500	14,100
Idaho	38.7	44.0	48.3	47.1	51.4	59.2	60.0	20,200	15,630
Wyoming	15.0	16.2	17.7	18.4	19.2	20.6	21.0	8,070	3,810
Colorado	48.5	51.7	55.9	55.5	56.9	66.4	67.3	25,500	7,190
New Mexico	21.3	20.3	23.4	18.8	20.0	26.4	26.9	9,700	3,600
Arizona	13.5	16.8	17.2	12.1	14.4	16.8	17.1	6,480	610
Utah	18.0	18.8	20.3	18.3	19.4	22.7	23.1	8,310	2,850
Nevada	3.9	4.5	4.5	5.0	5.4	6.5	6.6	1,900	720
MOUNTAIN STATES	**207.4**	**225.1**	**245.5**	**233.5**	**248.6**	**287.5**	**291.9**	**104,660**	**48,510**
Washington	55.4	60.2	64.2	56.7	57.1	71.4	72.5	21,100	27,070
Oregon	47.7	48.9	53.6	46.2	49.6	60.8	61.6	27,200	30,680
California	128.8	131.0	126.1	115.7	118.8	142.7	144.5	80,400	38,000
PACIFIC	**231.9**	**240.1**	**243.9**	**218.6**	**225.5**	**274.9**	**278.6**	**128,700**	**95,750**
TOTAL	**2,675.0**	**2,825.5**	**3,022.6**	**2,978.2**	**3,032.4**	**3,547.1**	**3,590.0**	**1,090,000**	**1,544,000**

[1]Census numbers have been adjusted to bring them more in line with 1959 and later data based on the new definition of a farm.

[2]Includes engines used for stationary work such as irrigation, auxiliary engines on combines, balers, etc., and a small number of power units not elsewhere classified.

NEW AGRICULTURAL WHEEL TRACTOR IMPORTS, JAN.-JUNE, 1982

(Excludes garden tractors except as indicated in headings, footnotes.)
Number of units/Value in thousands of dollars

Nation of Origin	Under 20 HP*	20-29 HP*	30-39 HP*	40-79 HP*	80-99 HP*	100 HP and Over*	HP Not Specifically Provided*
Canada	1/$11	2/$16	16/$164	16/$332	48/$1,918	170/$7,883	913/$55,137
United Kingdom	.....	.....	8/109	1,084/12,458	409/6,048	63/1,148	46/586
West Germany	.....	.....	1/17	2,107/24,439	1,543/25,051	482/11,211	43/748
Italy	.....	10/172	255/1,296	561/6,778	178/2,367	181/696	.....
Romania	.....	58/263	275/750	1,950/6,479	.....	.....	.....
Japan	10,206/29,561	7,059/25,972	2,545/9,861	1,309/9,261	9/213	295/6,455	496/3,662
Others***	7/18	6/22	1/7	242/3,726	.....	28/799	6/90
TOTALS	**10,214/$29,591**	**7,165/$26,445**	**3,101/$12,203**	**7,269/$63,473**	**2,187/$35,598**	**1,219/$27,992**	**1,504/$80,221**

Source: U.S. Dept. of Commerce, Bureau of Industrial Economics, Office of Producer Goods.
*Excluding garden tractors. **Including garden tractors. The term "industrial" here is understood to refer to such machines as forklifts, but not industrial tractors as defined in the farm and industrial equipment industry. ***Others include: Belgium (99), Czechoslovakia (69), Brazil (66), France (26), U.S.S.R. (3).

NEW AGRICULTURAL WHEEL TRACTOR IMPORTS, JAN.-DEC., 1981

(Excludes garden tractors except as indicated in headings, footnotes.)
Number of units/Value in thousands of dollars

Nation of Origin	Under 20 HP*	20-29 HP*	30-39 HP*	40-79 HP*	80-99 HP*	100 HP and Over*	HP Not Specifically Provided*
Canada	2/$2	8/$12	63/$588	47/$892	121/$4,151	461/$20,353	1,915/$116,940
United Kingdom	2/22	145/1,310	467/2,906	6,031/60,934	1,109/13,956	682/12,118	15/149
West Germany	.....	1/2	1/8	6,653/67,422	2,421/33,125	750/15,337	7/125
Italy	134/111	10/38	632/3,670	1,839/16,977	430/6,793	341/6,550	57/511
Romania	.....	112/208	446/1,143	3,050/10,536	.....	1/6	.....
Japan	23,016/69,925	12,964/47,920	4,998/20,015	2,281/14,139	3/23	85/293	714/3,302
Belgium	.....	.....	.....	639/7,670	.....	.....	.....
Argentina	.....	1,071/6,427	.....	.....	.....	.....	.....
U.S.S.R.	.....	.....	3/12	314/1,017	.....	.....	.....
Others***	54/123	28/103	51/396	102/3,047	.....	19/1,059	6/160
TOTALS	**23,208/$70,183**	**14,338/$56,020**	**6,861/$28,737**	**21,012/$182,835**	**4,084/$58,017**	**2,339/$55,718**	**2,714/$121,187**

Source: U.S. Dept. of Commerce, Bureau of Industrial Economics, Office of Producer Goods.
*Excluding garden tractors. **Including garden tractors. The term "industrial" here is understood to refer to such machines as forklifts, but not industrial tractors as defined in the farm and industrial equipment industry. ***Others include: Brazil (60), Korea (61), France (66), Poland (24), Netherlands (28), Czechoslovakia (40).

NEW AGRICULTURAL WHEEL TRACTOR IMPORTS, JAN.-DEC., 1980

(Excludes garden tractors except as indicated in headings, footnotes.)
Number of units/Value in thousands of dollars

Nation of Origin	Under 20 HP*	20-29 HP*	30-39 HP*	40-79 HP*	80-99 HP*	100 HP and Over*	HP Not Specifically Provided*
Canada	14/$47	12/$32	90/$626	244/$7,824	187/$6,096	755/$29,635	1,662/$89,530
United Kingdom	14/16	106/721	579/4,173	9,471/95,770	2,395/28,592	226/4,855	53/449
Belgium	7/56	12/89	.....	220/10,142	.....	2/7	.....
West Germany	10/12	4/8	94/2,080	7,420/80,459	3,650/52,874	987/27,059	4/89
Italy	33/72	31/108	211/787	2,011/13,807	55/868	189/2,884	156/1,568
Romania	.....	1,280/2,615	827/1,838	2,110/6,582	.....	.....	2/14
Poland	.....	.....	1/7	54/429	103/584	47/526	.....
U.S.S.R.	.....	1/2	.....	455/1,422	.....	.....	.....
Japan	16,917/42,213	15,897/54,470	7,622/35,193	2,120/15,661	5/36	2/31	80/469
Others	.....	53/254	11/499	102/1,567	1/13	3/180	3/48
Totals	**16,995/$42,415**	**17,396/$58,298**	**9,435/$45,202**	**24,757/$233,662**	**6,396/$89,063**	**2,211/$64,978**	**1,960/$92,167**

Source: U.S. Dept. of Commerce, Industry & Trade Administration.
*Excluding garden tractors. **Including garden tractors. The term "industrial" here is understood to refer to such machines as fork-lifts, but not industrial tractors as defined in the farm and industrial equipment industry.

Not Elsewhere Specified, Excl. Industrial, Incl. Garden Types, Rototillers**	Totals	
91/$4,021	1,257/$69,282	Canada
45/466	1,655/20,807	United Kingdom
20/423	4,205/61,887	West Germany
24/279	1,209/11,588	Italy
14/94	2,327/7,586	Romania
3,979/4,640	25,898/89,625	Japan
2/3	292/4,674	Others***
4,184/$9,926	38,843/$269,449	TOTALS

Not Elsewhere Specified, Excl. Industrial, Incl. Garden Types, Rototillers**	Totals	
153/$6,007	2,770/$148,945	Canada
93/973	8,544/92,368	United Kingdom
8/62	9,841/116,081	West Germany
116/1,684	3,559/36,304	Italy
2/11	3,611/11,904	Romania
5,489/9,024	49,330/164,641	Japan
.....	639/7,870	Belgium
.....	1,071/6,427	Argentina
15/28	332/1,057	U.S.S.R.
2/63	262/4,951	Others***
5,858/$17,852	80,215/$590,549	TOTALS

Not Elsewhere Specified, Excluding Industrial, Including Garden Types**	Totals	
194/$3,172	3,158/$136,967	Canada
94/209	12,938/134,585	United Kingdom
.....	789/10,204	Belgium
207/3,606	12,379/166,187	West Germany
571/5,890	3,070/25,964	Italy
33/153	4,252/11,202	Romania
1/66	206/1,612	Poland
28/33	485/1,457	U.S.S.R.
8,600/5,529	51,243/153,602	Japan
119/557	292/3,118	Others
9,847/$19,238	88,997/$644,972	Totals

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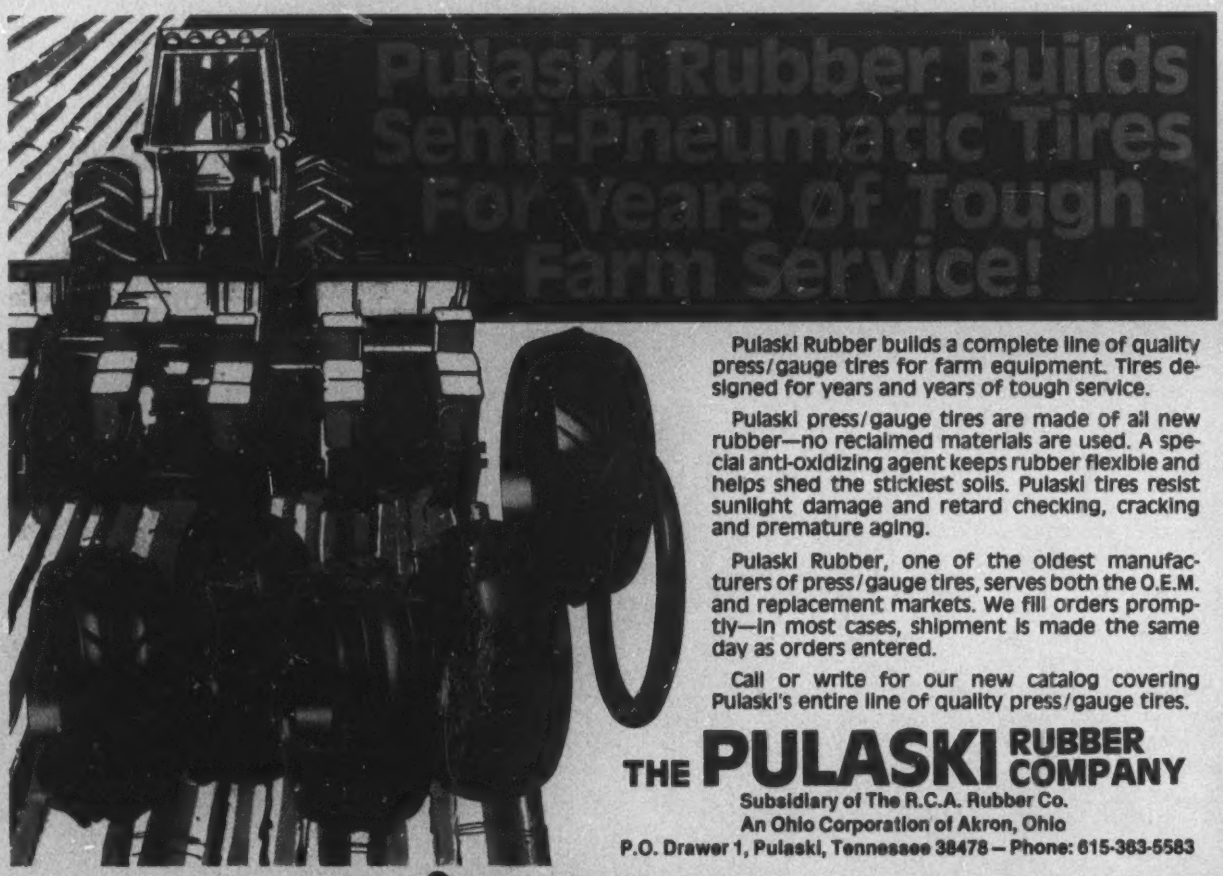
DOLLAR VALUE OF FARM EQUIPMENT
IMPORTS BY COUNTRY OF ORIGIN, Jan., 1977-June, 1982
(in thousands)

Country	Jan.-Dec. 1977	Jan.-Dec. 1978	Jan.-Dec. 1979	Jan.-Dec. 1980	Jan.-Dec. 1981	Jan.-June 1982
Canada	$619,662	$506,728	$831,155	$820,500	$706,276	$298,908
Mexico	8,363	6,277	10,082	9,080	9,699	4,674
Brazil	NA*	2,194	892	1,002	1,064	2,737
Sweden	2,077	1,708	4,818	4,456	2,784	2,013
Norway	1,751	1,075	1,273	1,239	1,615	583
Denmark	4,054	4,513	7,158	5,703	4,690	3,470
Netherlands	13,560	12,690	16,942	15,407	13,626	9,226
United Kingdom	110,071	125,241	209,967	215,932	153,589	51,379
Belgium	78,191	66,347	93,709	67,188	50,393	19,407
France	36,715	36,351	62,294	51,488	41,695	18,140
West Germany	118,861	141,392	231,521	236,578	197,110	97,260
Austria	1,219	783	1,188	1,195	1,328	514
Hungary	4,474	4,673	10,727	10,155	9,329	4,752
U.S.S.R.	1,415	1,113	2,715	1,716	1,296	68
Poland	3,705	1,746	1,346	3,334	1,715	442
Romania	10,451	8,372	11,648	11,611	12,598	8,155
Italy	50,246	75,066	78,523	94,794	100,853	45,032
Spain	4,326	3,768	9,239	5,559	3,561	4,927
Israel	940	1,545	2,616	3,218	2,777	1,960
New Zealand	2,525	1,918	5,312	6,665	8,630	4,418
Australia	3,642	3,218	5,937	4,366	7,306	2,351
Japan	73,861	167,858	267,599	189,753	202,000	100,763
China (Taiwan)	1,273	1,446	1,916	1,573	2,562	1,613
South Africa	3,830	3,972	6,332	5,234	2,409	119
Others	2,347	2,762	5,561	5,287	10,894	13,500
TOTAL	**$1,157,560**	**$1,182,758**	**$1,880,470**	**$1,773,033**	**$1,549,799**	**$685,611**

Source: U.S. Dept. of Commerce, Bureau of Industrial Economics, Office of Producer Goods. *Data not available, included with "others."



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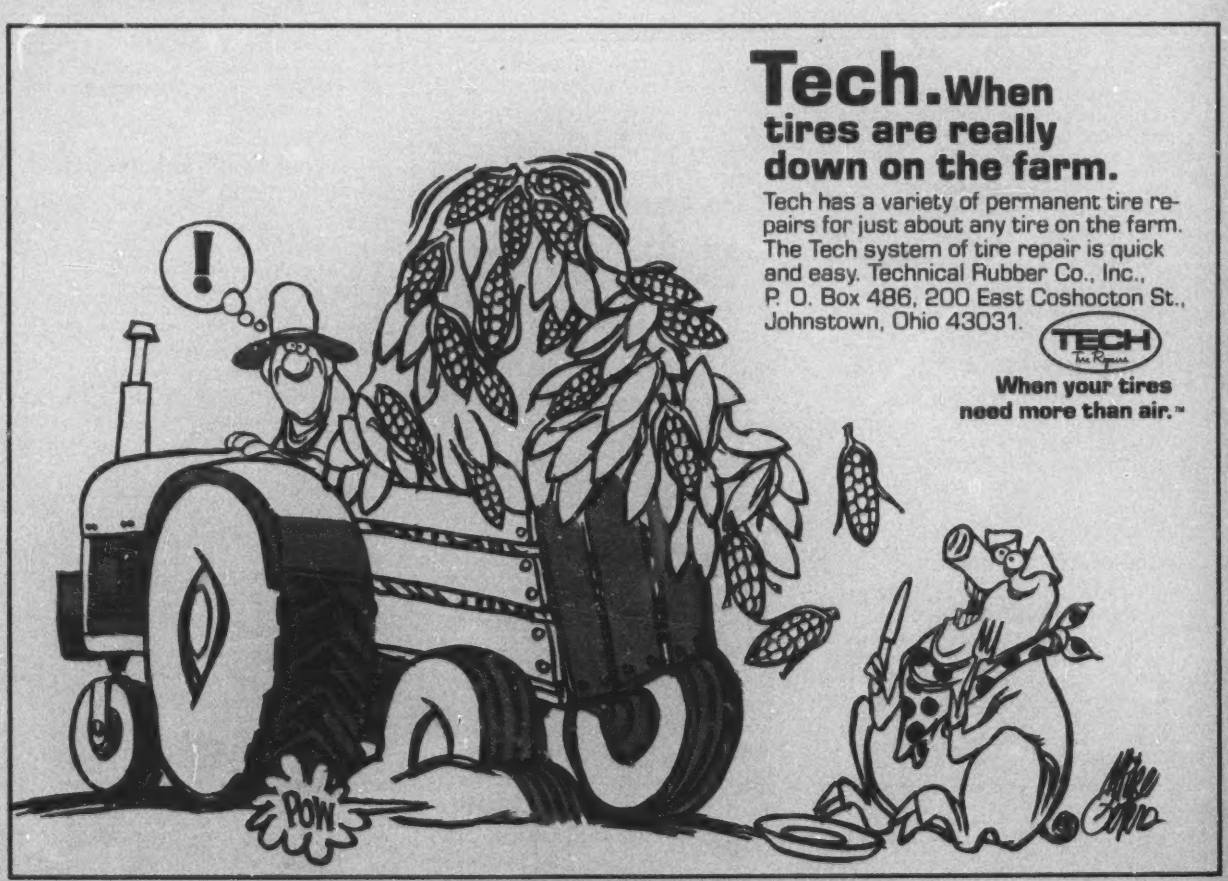
IMPORTS OF FARM EQUIPMENT BY PRODUCT

Product	Jan.-Dec., 1980 Quantity	Jan.-Dec., 1980 Value in Thousands of Dollars	Jan.-Dec., 1981 Quantity	Jan.-Dec., 1981 Value in Thousands of Dollars	Jan.-June, 1982 Quantity	Jan.-June, 1982 Value in Thousands of Dollars
Knives & Cutting Blades	10,326,000	$ 12,406	7,184,967	$10,022	4,150,861	$ 6,539
Plows & Listers	9,351	13,297	5,385	9,361	1,526	3,477
Cultivators & Weeders	16,854	27,760	10,190	25,274	8,984	12,346
Parts of Plows, Cultivators, Weeders & Listers	.....	27,516	.....	28,114	.....	12,971
Harrows, Rollers, Stalk Cutters, Soil Pulverizers	23,030	10,102	21,615	10,794	14,948	5,003
Parts of Harrows, Rollers, Stalk Cutters, etc.	.....	14,882	.....	11,965	.....	7,834
Planting, Seeding & Fertilizing Machinery	31,476	55,647	31,764	54,212	14,858	26,375
Parts of Planting, Seeding & Fertilizing Machinery	.....	12,957	.....	12,642	.....	5,943
Haying Machinery other than Mowers	9,183	24,751	5,847	13,061	5,852	8,776
Mowers except Lawn Mowers	17,912	25,802	14,895	24,523	10,361	17,527
Harvesting Machines, NES	17,667	283,829	14,647	196,569	6,313	75,095
Parts of Harvesting Machines	.....	95,307	.....	65,224	.....	32,498
Farm Wagons & Carts	10,829	11,733	9,963	13,010	2,903	5,110
Agricultural Machines & Implements, NES	.....	85,859	.....	94,045	.....	37,807
Parts of Agricultural Machines, NES	.....	67,386	.....	67,308	.....	29,150
Tractors, Agricultural, Wheel-Type, New, excluding Industrial*	88,997	644,972	80,215	590,549	36,843	265,449
Tractors, Agri., Used	3,040	19,013	3,176	20,551	1,746	12,823
Parts for Agri. Tractors	.....	335,542	.....	296,988	.....	116,477

Source: U.S. Dept. of Commerce, Bureau of Industrial Economics, Office of Producer Goods.
NES—Not elsewhere specified.
*Use of the term "industrial" here is understood to refer to such machines as forklifts but not to industrial tractors as commonly defined in the farm and industrial equipment industry.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VALUE OF U.S. FARM EQUIPMENT EXPORTS BY COUNTRIES OF DESTINATION

(Value in thousands of dollars)

Country	1980	1981	Jan.-June 1982
Western Hemisphere			
Canada	$1,068,234	$1,377,947	$ 614,526
Mexico	350,572	259,970	96,601
Guatemala	7,020	6,498	1,839
Honduras	6,573	5,822	1,564
Nicaragua	18,116	10,014	2,284
Costa Rica	7,875	3,375	736
Panama	4,917	7,906	3,697
Trinidad	4,507	5,362	3,637
Dominican Republic	15,018	7,540	2,144
Colombia	17,290	18,755	8,035
Jamaica	2,105	3,703	2,820
Venezuela	68,581	76,691	29,428
Brazil	36,697	30,805	11,080
Uruguay	6,323	3,200	605
Paraguay	3,432	3,344	928
Argentina	41,687	27,807	6,196
Chile	12,425	11,893	2,022
Ecuador	13,017	16,163	7,049
Peru	14,793	11,686	3,944
Europe			
Denmark	11,852	5,729	2,748
Sweden	9,739	10,028	5,892
United Kingdom	66,143	77,137	40,535
Netherlands	11,494	10,375	7,042
Belgium	84,389	106,337	41,246
France	111,678	96,216	70,366
West Germany	78,472	60,724	47,951
Hungary	11,455	11,806	3,246
Switzerland	3,985	4,762	2,753
Spain	20,382	11,041	3,807
Italy	15,235	13,065	5,223
Greece	5,013	4,320	954
Yugoslavia	7,360	2,088	1,913
U.S.S.R.	10,276	36,506	12,913
Middle East			
Iraq	7,940	8,055	5,638
Israel	14,181	15,248	10,252
Kuwait	4,622	3,731	1,223
Saudi Arabia	28,564	63,813	29,558
Syria	2,673	2,293	561
Arab Emirates	2,536	6,722	2,651
Asia and Pacific			
India	3,885	2,791	730
Thailand	3,509	3,112	1,049
Singapore	24,790	19,919	7,370
China (PRC)	11,672	2,775	803
China (Taiwan)	2,789	2,864	1,215
Malaysia	3,158	3,331	1,132
Indonesia	4,015	2,455	1,047
Philippines	4,654	5,241	2,350
Japan	33,284	21,878	11,948
Australia	183,083	199,503	136,897
New Zealand	11,711	8,850	3,226
Africa			
Algeria	2,205	6,200	2,742
Libya	7,233	16,025	1,811
Sudan	5,974	5,974	13,417
Nigeria	8,534	10,633	4,784
Egypt	5,234	26,996	4,981
Rep. South Africa	47,928	94,929	40,479
Total U.S. Exports, Farm & Industrial Equipment	**$2,631,287**	**$2,942,117**	**$1,380,948**

Source: U.S. Dept. of Commerce, Bureau of Industrial Economics, Office of Producer Goods.

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FARM EQUIPMENT EXPORTS BY TYPE OF PRODUCT

Product	Jan.-Dec., 1980 Quantity	Jan.-Dec., 1980 Dollar Value in Thousands	Jan.-Dec., 1981 Quantity	Jan.-Dec., 1981 Dollar Value in Thousands	Jan.-June, 1982 Quantity	Jan.-June, 1982 Dollar Value in Thousands
Combines, pull-type	2,238	45,807	2,061	43,402	1,571	40,261
Combines, self-propelled	7,085	205,525	6,936	252,609	4,382	160,538
Cultivators, tractor-drawn or mounted	7,753	13,342	8,780	15,490	3,193	7,055
Cultivators, NEC, and Weeders	4,628	5,193	3,277	5,467	1,533	2,356
Farm Elevators and Blowers	3,246	9,579	3,323	12,295	865	2,996
Farm Wagons and Carts	2,855	3,428	3,208	6,001	924	1,790
Parts for Farm Wagons and Carts	.....	1,471	.....	2,014	.....	651
Fertilizing Machines	29,463	20,890	8,096	20,814	2,818	8,258
Forage Harvesters	6,146	38,960	3,806	30,155	1,818	23,106
Harrows, Disk	7,484	23,762	9,851	26,568	3,463	13,568
Harrows, NEC, & Soil Pulverizers	9,530	9,997	9,043	10,557	3,792	5,077
Parts for Harrows, Stalk Cutters & Soil Pulverizers	.....	10,231	.....	9,875	.....	6,070
Harvesting Machines, NEC	12,860	116,973	10,474	110,879	4,483	38,398
Harvesting Machine Parts	.....	83,228	.....	151,325	.....	76,314
Hay Balers	15,643	75,316	14,654	85,244	5,580	35,607
Haying Machines, NEC (incl. rakes & tedders)	7,555	36,214	9,087	44,660	3,332	21,333
Parts for Haying Machines	.....	27,802	.....	24,837	.....	13,748
Mowers, Cutterbar, tractor-drawn	3,032	6,791	3,232	7,838	1,624	4,336
Mowers, Rotary, tractor-drawn (excl. lawn mowers)	10,884	9,309	8,826	6,861	6,829	5,085
Mowers, NEC, tractor-drawn (excl. lawn mowers)	3,150	9,032	3,598	11,128	998	2,760
Planting Machines	6,355	11,897	9,028	22,606	4,189	9,731
Plows, Disk	3,555	7,405	3,960	9,384	1,517	3,511
Plows, Moldboard	4,067	12,584	6,140	17,577	1,467	4,723
Plows & Listers, NEC	8,009	12,854	5,259	15,160	3,903	9,377
Parts for Plows, Listers, Cultivators & Weeders	.....	31,325	.....	35,876	.....	15,502
Seeding Machines	14,461	21,248	16,604	30,111	8,134	16,493
Parts for Planting, Seeding & Fertilizing Machines	.....	19,312	.....	19,939	.....	10,463
Farm Tractors:						
Under 40 PTO HP	3,871	18,026	2,089	13,822	666	3,799
40-59 PTO HP	1,401	13,895	1,784	21,320	415	4,907
60-79 PTO HP	1,533	20,000	1,376	20,650	615	10,590
80-99 PTO HP	1,395	24,638	1,984	37,231	598	13,896
100-119 PTO HP	3,685	79,841	4,355	105,804	1,365	37,430
120-139 PTO HP	7,039	168,898	7,057	188,020	2,693	76,465
140-159 PTO HP	2,546	69,351	2,449	75,793	1,042	33,467
160-179 PTO HP	1,437	51,786	1,914	74,216	560	25,458
180 HP & Over	3,153	128,483	3,741	179,283	1,847	101,424
Other Farm Tractors	2,972	54,124	2,817	54,716	759	10,771
Parts for Farm Tractors	.....	773,515	.....	778,425	.....	358,338

Source: U.S. Dept. of Commerce, Bureau of Industrial Economics, Office of Producer Goods.
NEC—Not elsewhere counted or classified.

Circle (29) on Reply Card

Wheel Tractors, Attachments and Parts, Value of Shipments, 1977-1981

(In thousands of dollars)

	1981	1980	1979	1978	1977
Wheel Tractors, Farm Type	3,066,418	2,761,480	2,901,693	2,264,398	2,424,139
Wheel Tractors, Non-Farm	97,257	115,154	165,506	132,694	115,458
Attachments for Wheel Tractors, Farm and Non-Farm	44,965	48,066	69,353	36,527	34,780
Parts for Wheel Tractors, Farm and Non-Farm	421,320	469,505	255,726	263,312	420,273
Wheel Tractor Chassis, Shipped as Part of Shovel Loader/Backhoe	315,639	306,736	351,306	278,269	212,826
TOTALS	**3,945,599**	**3,700,941**	**3,743,584**	**2,975,200**	**3,207,476**

Source: U.S. Dept. of Commerce, Bureau of the Census, Current Industrial Reports, Tractors (M35S).

Farm Machinery and Garden Equipment, Attachments and Parts, Value of Shipments, 1977-1981

(In thousands of dollars)

	1981	1980	1979	1978	1977
Planting, Seeding and Fertilizing Machinery	770,264	680,743	652,944	522,416	550,782
Harrows, Rollers, Pulverizers, Stalk Cutters	523,735	555,377	601,262	462,419	465,974
Plows	234,009	245,875	273,496	203,617	239,151
Harvesting Machinery	2,578,812	2,207,075	2,133,516	1,815,631	1,599,722
Haying Machinery	715,441	778,199	674,621	533,738	469,715
Farm Dairy Machines and Equipment	159,961	143,372	134,301	108,920	97,347
Sprayers and Dusters	248,855	254,083	245,368	197,931	161,709
Farm Elevators and Blowers	117,761	140,809	173,492	157,168	1114,691
Cultivators and Weeders	239,985	275,793	275,519	206,125	140,079
Machines for Preparing Crops for Market or Use	312,061	340,083	384,916	356,008	308,932
Farm Poultry Equipment	144,940	174,931	223,333	159,452	127,867
Hog Equipment	42,354	63,951	120,728	95,226	54,481
Other Barn and Barnyard Equipment	256,629	274,220	306,942	251,587	188,150
Garden Tractors, Motor Tillers	NA	NA	NA	686,375	574,702
Farm Wagons, Other Farm Transportation Equipment[1]	198,650	207,105	276,557	247,779	183,934
Irrigation Systems	352,301	308,974	234,412	161,348	279,272
Commercial Turf, Mowing Equipment	188,587	200,666	119,189	NA	107,400*
Other Turf, Grounds Care Equipment	37,299	35,430	33,008	NA	172,900*
Consumer Nonriding Lawn, Garden, Snow Equipment	1,170,281	1,374,557	1,444,126	NA	844,400*
Consumer Riding Lawn, Garden, Snow Equipment	903,922	953,403	1,047,080	NA	776,700*
TOTALS	**9,195,847**	**9,215,006**	**9,354,810**	**5,479,495**	**6,773,261**

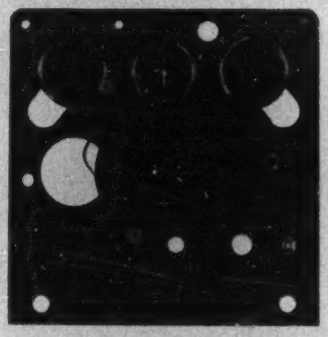
[1]Data for 1977 and 1978 include operator cabs in attachments and parts for these items.
NA – Not available or not applicable.
*Data from 1977 Census of Manufacturers.
Source: U.S. Dept. of Commerce, Bureau of the Census, Current Industrial Reports, Farm Machinery and Lawn and Garden Equipment (MA-35A).

Shipments of Farm Machines and Equipment

(In units, 1977-1981)

Type of Farm Equipment	1981	1980	1979	1978	1977
Balers, hay (all types):					
Bales under 200 lbs.	15,936	17,065	20,867	22,659	24,876
Bales over 200 lbs.	23,213	32,446	31,443	21,323	17,745
Blowers (includes forage type, combination grain-forage type)	6,771	9,752	11,526	12,018	10,348
Cabs (metal), farm tractor	8,292	10,565	49,259	54,651	6,766
Cabs, other equipment	3,193	4,051	4,648	3,995	9,025
Combines, grain, pull-type and self-propelled	32,062	28,502	32,400	32,020	31,943
Combines, peanut	270	880	1,632	1,974	1,790
Corn heads	17,107	14,601	20,052	18,629	24,035
Cotton strippers (all types)	NA	2,566	1,279	1,900	1,816
Cultivators, corn and cotton types[1]	21,697*	28,726*	37,939	38,355	33,999
Cultivators, field:					
Pull-type	10,613	14,897	19,520	13,440	17,470
Mounted	3,039	5,257	4,731	5,262	8,992
Cultivators, rotary:					
Ground driven, sections and machines[2]	14,545	20,355	16,480	16,794	16,219
Ground driven, integrally mounted			11,466	12,214	8,637
Power driven	456	486	700	628	672
Cultivators and weeders, other	30,936	47,727	39,153	42,148	46,372
Cutters and shredders or rotary mowers (pto):					
Flail-type	13,577	12,149	12,747	9,521	12,409
Horizontal blade-type	66,980	75,677	95,045	72,469	79,953

See footnotes at end of table.



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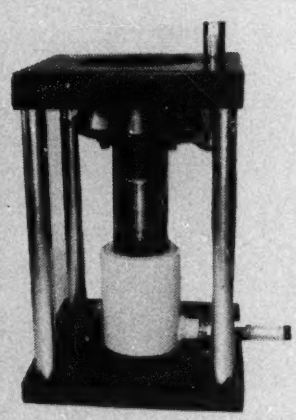
Circle (30) on Reply Card

Type of Farm Equipment	1981	1980	1979	1978	1977
Diggers, peanut (shakers and windrowers but not combines)	685	1,233	1,847	2,002	2,517
Distributors (fertilizer):					
Dry	5,992	6,254	11,754	11,522	11,446
Liquid	10,035	10,070	7,196	6,503	6,619
Anhydrous Ammonia	6,103	6,693	7,178	6,455	6,562
Dryers, grain, hay and seed batch type, pto or electric-motor operated	5,413	7,899	9,809	9,355	10,373
Continuous flow-type	1,342	1,419	1,755	2,306	4,362
Heated air units	13,516	14,983	21,573	28,290	26,692
Dusters, power, all types	859	794	727	574	875
Elevators, portable:					
Single chain	5,507	7,316	8,224	7,211	5,004
Double chain	3,041	6,680	9,446	8,787	7,174
Auger-type, under 6-in. dia.	17,607	25,725	35,585	31,662	40,668
Auger-type, 6-in. dia.	18,144	27,885	56,809	79,401	73,628
Auger-type, over 6-in. dia.	18,825	23,809	59,658	81,664	58,382
Elevators, stationary and other	18,287	33,268	38,734	32,355	10,270
Fans, crop drying and aeration	27,422	26,162	51,441	59,912	45,668
Grain drills, fixed-frame, all types	19,911	19,448	NA	NA	NA
Grain heads for combines	48,694	46,162	50,177	50,609	45,892
Grinder-mixers, stationary and portable	8,031	14,152	18,888	16,907	12,393
Harrows, disk	51,704	67,676	85,375	76,857	96,650
Harrow sections (spike-, spring-, and tine-tooth)	76,096**	96,893	120,695	98,108	103,260
Harvesters, beet	294	246	111	312	556

See footnotes at end of table.

(More...)



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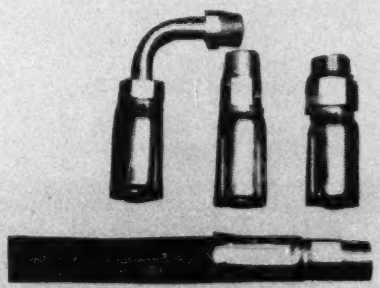

Circle (31) on Reply Card

Shipments *(continued)*

Type of Farm Equipment	1981	1980	1979	1978	1977
Harvesters, forage, field, shear-bar type, self-propelled and pull	7,309	12,761	14,006	12,969	14,573
Attachments for shear-bar type, pickup and cutter-bar hay units	5,818	9,785	10,398	10,946	9,126
Row crop units, all sizes	6,857	11,800	13,578	13,532	14,687
Flail-type, including discharge spouts	2,254	3,062	3,080	3,972	4,167
Harvesters, potato	389	258	362	758	1,005
Harvesting machinery, other	7,837***	8,108	11,972	13,566	11,801
Levelers or scrapers	6,122	6,931	165,346	160,526	99,287
Loaders, field, for baled hay	2,874	6,457	6,890	6,160	4,136
Loaders, tractor mounted, farm	23,322	36,547	69,294	42,582	27,661
Mills, feed, farm size (includes grinders and crushers of the hammer, burr or roller types	6,662	8,035	11,077	10,614	6,508
Mixers, feed, farm size	3,094	3,162	4,108	3,578	2,885
Mowers, cutter bar-type	7,687	8,586	8,435	12,134	13,962
Mower-conditioners, self-propelled and pull-type	31,059	38,071	35,039	29,921	27,517
Planters, corn and cotton, all types	163,096	156,482	NA	NA	183,089
Planters, row crop units (quantity in number of rows)			36,887	37,764	41,424
Plows, chisel or sweep type:					
Pull-type	10,229	14,313	15,455	12,090	15,084
Mounted	5,321	6,094	9,703	10,501	15,194
Plows, disk-chisel combination	2,462	3,195	NA	NA	NA

See footnotes at end of table.

COFER

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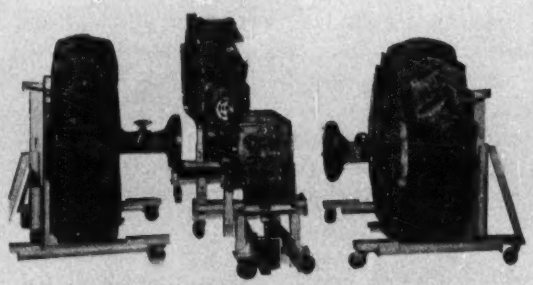

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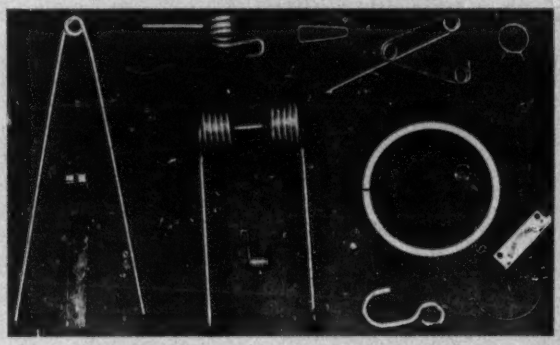

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Type of Farm Equipment	1981	1980	1979	1978	1977
Plows, disk, 1-way, 2-way (harrow, cylinder, great plains, all sizes)	4,812	8,302	NA	NA	NA
Plows, subsoiler	1,756	2,383	8,321	6,964	8,129
Plows, terracing and ditching			2,308	2,039	2,261
Plows, moldboard					
Pull-type, 1-way	2,503	3,263	3,873	2,666	4,438
Mounted, 1-way	6,111	8,680	13,224	11,852	15,771
Semi-mounted, 1-way	11,485	11,817	18,883	14,099	22,294
Pull-type and mounted, 2-way	3,299	2,999	3,577	3,473	3,822
Plows, other (except snow)	4,654	6,111	2,610	2,891	1,795
Rakes, hay, side-delivery	13,615	19,707	19,121	20,602	20,328
Sprayers, field and row crop type:					
Power, self-propelled	1,981	3,516	4,257	3,590	2,941
Power, tractor-mounted	24,250	25,549	31,089	22,368	17,228
Power, non-tractor-mounted	8,860	14,089	16,810	14,142	13,498
Sprayers, power, not field or row crop type	6,503	7,444	6,896	5,836	5,383
Sprayers, power, air-carried	6,996	6,286	9,856	8,019	7,662
Spreaders, manure:					
Conveyor type	11,823	17,029	16,586	16,528	16,688
Tank type	4,431	7,188	8,772	7,584	7,853
Stackers, hay	NA	1,175	1,806	1,442	1,037
Tillage equipment, combination roller/harrows, disk or coulter, field cultivators, disk or coulter/spring tooth	5,571	8,193	8,527	8,384	8,619

See footnotes at end of table.

(More...)

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Circle (34) on Reply Card

Shipments *(continued)*

Type of Farm Equipment	1981	1980	1979	1978	1977
Tool bars, basic units, pull, mounted	4,416	4,277	7,246	6,715	8,639
Tractors, tracklaying type	16,517	18,208	19,812	22,057	19,968
Tractors, wheel					
Farm type	118,209	118,240	159,973	136,240	168,888
Non-farm type	7,480	10,029	18,452	16,741	17,623
Transplanters and broadcast seeders	23,854	20,872	43,672	27,296	30,250
Wagons, farm type, chassis only, and trailer gear	41,109	46,642	53,247	53,257	57,831
Wagon boxes and racks for mounting on wagons and trailer gear					
Manual unloading or dump	14,572	16,998	23,342	23,143	16,437
Gravity unloading, grain type	18,062	24,028	39,377	31,072	28,714
Power unloading	14,521	18,038	19,950	18,599	19,135
Wagon boxes with integral running gear	5,368	5,737	8,136	7,206	6,097
Windrowers for grain, pull-type	NA	828	819	617	601
Windrowers for hay, self-propelled	NA	7,163	5,841	4,098	6,003

In some cases, I&T has combined data because of space limitations. If you need more information from MA-35A, write us.
DATA: Current Industrial Reports, Series MA-35A and M-35S, Bureau of the Census.
NA – Not available or not applicable.

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